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FILE 'REGISTRY' ENTERED AT 12:36:06 ON 08 DEC 2004
                E "GLP-1"/CN 5
                E "GLP 1"/CN 5
              1 S E3
L1
                E GLP 2/CN 5
                E "GLP-2"/CN 5
              1 S E4
L2
                E "GLP-1"/CN 5
              3 S E4-E6
L3
                E EXENDIN 3/CN 5
                E EXENDIN 4/CN 5
             13 S EXENDIN 3 ?/CN
L4
             41 S EXENDIN 4 ?/CN
L5
             57 S L1 OR L2 OR L3 OR L4 OR L5
L6
                 E MONOSACCHARIDES/CN 5
                 E SUCROSE/CN 5
               1 S E3
L7
                 E TREHALOSE/CN 5
               2 S E3-4
L8
                 E MANNITOL/CN 5
               2 S E3
L9
                 E SUGAR ALCOHOL/CN 5
               5 S L7 OR L8 OR L9
L10
                 E "GLUCAGON-LIKE PEPTIDE 1"/CN
             122 S ("GLUCAGON-LIKE PEPTIDE 1"? OR "GLUCAGON-LIKE PEPTIDE 2"?)/CN
 L11
              58 S ("GLUCAGON-LIKE PEPTIDE I"? OR "GLUCAGON-LIKE PEPTIDE II"?)/C
             232 S L1 OR L2 OR L3 OR L4 OR L5 OR L11 OR L17
 L17
 L18
                 E "POLY(LACTIDE)"/CN 5
                 E "POLY(GLYCOLIDE)"/CN 5
                 E "POLY(LACTIDE-CO-GLYCOLIDES)"/CN 5
                1 S E2
 L22
                 E "POLY(LACTIC ACID)"/CN 5
                1 S E3
 L23
                 E "POLY(GLYCOLIC ACID)"/CN 5
                1 S E3
                  E "POLY(LACTIC ACID-CO-GLYCOLIC ACID)"/CN 5
 L24
                  E POLYCAPROLACTONE/CN 5
                2 S E3
 L25
                  E POLYCARBONATES/CN 5
 L26
                  E POLYESTERAMIDES/CN 5
                  E POLYANHYDRIDES/CN 5
                1 S E4
 L27
                  E "POLY (AMINO ACIDS) "/CN 5
                  E POLYORTHOESTERS/CN 5
                  E POLYCYANOACRYLATES/CN 5
                  E "POLY(P-DIOXANONE)"?/CN 5
                  E "POLY(P-DIOXANONE)"/CN 5
                2 S E3-4
  L28
                  E "POLY (ALKYLENE OXALATE) "/CN 5
                  E POLYURETHANES/CN 5
                   E POLYURETHANE/CN 5
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L34 L35	11 S L22 OR L23 OR L24 OR L25 OR L20 OR L27
L1 L2 L3	1 SEA FILE=REGISTRY ABB=ON PLU=ON GLF-2 (NAME FILE=REGISTRY ABB=ON PLU=ON ("GLP-1 (7- 36)"/CN OR "GLP-1 (RANA PIPIENS "GLP-1 (RANA PIPIENS TROUBLE ON PLU=ON
L4 L5 L7 L8	13 SEA FILE=REGISTRY ABB=ON PLU=ON EXEMBIN 3 ?/CN 41 SEA FILE=REGISTRY ABB=ON PLU=ON EXENDIN 4 ?/CN 1 SEA FILE=REGISTRY ABB=ON PLU=ON SUCROSE/CN 2 SEA FILE=REGISTRY ABB=ON PLU=ON (TREHALOSE/CN OR "TREHALOSE
L9 L10 L11	(MOUSE) /CN) 2 SEA FILE=REGISTRY ABB=ON PLU=ON MANNITOL/CN 5 SEA FILE=REGISTRY ABB=ON PLU=ON L7 OR L8 OR L9 122 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON-LIKE PEPTIDE 1"? OR "GLUCAGON-LIKE PEPTIDE 2"?)/CN 444382 SEA FILE=CAPLUS ABB=ON PLU=ON L10 OR SUGAR OR MONOSACCHARIDE
L14	OR DISACCHARIDE OR (MONO OR DI) (W) SACCHARIDE ON DESCRIPTION
L17	TREHALOSE OR MANNITOL 58 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON-LIKE PEPTIDE I"? OR "GLUCAGON-LIKE PEPTIDE II"?)/CN 232 SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5
L18	
L19	OR L11 OR L17 2674 SEA FILE=CAPLUS ABB=ON PLU=ON L18 OR GLP1 OR GLP2 OR (GLP OR GLUCAGON LIKE) (2W) (1 OR 2 OR I OR II) OR GLPI OR GLPII OR EXENDIN (1W) (3 OR 4 OR III OR IV)
L20 L31	AND DIE ARREON PLUE ARREON LIA AND LIE
L1 L2 L3	1 SEA FILE=REGISTRY ABB=ON PLU=ON "GLP 1"/CN 1 SEA FILE=REGISTRY ABB=ON PLU=ON "GLP-2 (RANA PIPIENS)"/CN 3 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLP-1 (7- 36)"/CN OR "GLP-1 (RANA PIPIENS ISOFORM A)"/CN OR "GLP-1 (RANA PIPIENS
L4 L5 L7 L8	ISOFORM B) "/CN) 13 SEA FILE=REGISTRY ABB=ON PLU=ON EXENDIN 3 ?/CN 41 SEA FILE=REGISTRY ABB=ON PLU=ON EXENDIN 4 ?/CN 1 SEA FILE=REGISTRY ABB=ON PLU=ON SUCROSE/CN 2 SEA FILE=REGISTRY ABB=ON PLU=ON (TREHALOSE/CN OR "TREHALOSE (MOUSE) "/CN)
L9 L10 L11	2 SEA FILE=REGISTRY ABB=ON PLU=ON MANNITOL/CN 5 SEA FILE=REGISTRY ABB=ON PLU=ON L7 OR L8 OR L9 122 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON-LIKE PEPTIDE 1"?
L14	THE CARTIC APPENDING APPENDING APPENDING THE ON THE OWN THE OW

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	OR DISACCHARIDE OR (MONO OR DI) (W) SACCHARIDE OR SUCROSE OR
	OR DISACCHARIDE OR (MONO OR DE) (W)
	TREHALOSE OR MANNITOL 58 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON-LIKE PEPTIDE I"?
L17	OR "GLUCAGON-LIKE PEPTIDE II"?)/CN
	OR "GLUCAGON-LIKE PEPTIDE 11";)/CN 232 SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5
L18	OR L11 OR L17
0.	
L19	CIUCAGON LIKE) (2W) (1 OR 2 OR 1 OR 11) OR SELE
-00	
L20	114 SEA FILE=CAPLUS ABB=ON PLU=ON L20 AND (POLY(W) (LACTIDE OR 5 SEA FILE=CAPLUS ABB=ON PLU=ON L20 AND LACTONE OR CAPROLACTON
L32	5 SEA FILE=CAPLUS ABB=ON PLU=ON LZO AND (FORTY) (ADDITIONAL OR CAPROLACTON GLYCOLIDE OR LACTIC OR GLYCOLIC OR CAPROLACTON OR ESTERAMIDE OR ANHYDRIDE OR
	OD DOMED AMILIE UK DOLDKALLDA OF THE
	E OR CARBONATE OR ESTER ANTIBE OF URETHANE)) AMINO OR ORTHO ESTER OR ORTHOESTER OR URETHANE))
	THE DAY ON THE 1"/CN
L1	1 SEA FILE=REGISTRY ABB=ON PLU=ON "GLP-2 (RANA PIPIENS)"/CN
L2	1 SEA FILE=REGISTRY ABB=ON PLU-ON ("GIP-1 (7- 36)"/CN OR
L3	1 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLP-1 (7- 36)"/CN OR 3 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLP-1 (7- 36)"/CN OR "GLP-1 (RANA PIPIENS ISOFORM A)"/CN OR "GLP-1 (RANA PIPIENS
	"GLP-1 (RANA PIPIENS ISOFORM A) / CN OR ODE 1 (1)
	ISOFORM B)"/CN) 13 SED FILE=REGISTRY ABB=ON PLU=ON EXENDIN 3 ?/CN
L4	13 SEA FILE=REGISIRI ADD ON A O /ON
L 5	41 SEA FIELD RESERVED ON DIVISION SUCROSE/CN
L7	1 SEA FILE-REGISINI ADD ON COR ON OR UTDENATOSE
F8	2 SEA FILE-REGISTRI 1885 CI
	(MOUSE) "/CN) 2 SEA FILE=REGISTRY ABB=ON PLU=ON MANNITOL/CN 2 SEA FILE=REGISTRY ABB=ON PLU=ON 17 OR 18 OR 19
L9	2 SEA FIRE-REGISTRE ON DIVION 17 OR L8 OR L9
L10	5 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON-LIKE PEPTIDE 1"? 122 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON-LIKE PEPTIDE 1"?
L11	OR "GLUCAGON-LIKE PEPTIDE 2"?)/CN
L14	444382 SEA FILE=CAPLUS ABB=ON PLU-ON HIG ON BUCROSE OR OR DISACCHARIDE OR (MONO OR DI) (W) SACCHARIDE OR SUCROSE OR
+1 7	FO GEN FILE=REGISTRY ABB=ON PLU=ON ("GLUCAGON" HIND 121111
L17	OR "GLUCAGON-LIKE PEPTIDE II"?)/CN OR "GLUCAGON-LIKE PEPTIDE II"?)/CN OR L3 OR L4 OR L5
T 1 0	OR "GLUCAGON-LIKE PEPTIDE 11"://CN 232 SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5
L18	OR L11 OR L17
L19	
113	CITICAGON LIKE) (2W) (I OR 2 OR I OR II) OR SEE
	$\pi_{VPND}TN(1W)/3 OP 4 OR TIL OR IV)$
L20	114 SEA FILE=CAPLUS ABB=ON PLU=ON LIT AND LITE OF CLYCOLIDE\"/
L22	1 SEA FILE=REGISTRY ABB=ON PLU=ON "POLY(LACTIDE-CO-GLYCOLIDE) /
	CN 1 SEA FILE=REGISTRY ABB=ON PLU=ON "POLY(LACTIC ACID)"/CN
L23	I SEA FILE-REGISINI IED OI
L24	1 SEA FILIDEROUGHT 122 TO THE CONTROL OF THE CONTRO
L25	2 SEA FILE-REGISTRY ADD ON PLU-ON POLYCARBONATES/CN
L26	1 SEA FILE=REGISTRY ADD ON PLU-ON "POLYANHYDRIDES, C16-20"/CN
L27	I SEA FILIDANDOLOTEL AND THE SECOND IN CONTRACTOR OF THE S
L28	2 SEA FILE-KUNDING CRU!! (CN)
L29	3 SEA FILE=REGISTRY ABB=ON PLU=ON ("GLYCOLIDE-LACTIDE BLOCK COPOLYMER"/CN OR "GLYCOLIDE-LACTIDE COPOLYMER"/CN) OR "GLYCOLIDE-LACTIDE COPOLYMER"/CN)
	E-LACTIDE POLYMER"/CN 11 SEA FILE=REGISTRY ABB=ON PLU=ON L22 OR L23 OR L24 OR L25 OR
L30	L26 OR L27 OR L28 OR L29
	1120 OK 1127 OK 222

Searcher : Shears 571-272-2528

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L33	ESTER OR I	CAPLUS ABB=ON P POLYCAPRO LACTON R POLYDIOXANONE)	LU=ON L2 E OR GLY(20 AND (L30 OR PC COLIDE(A)LACTIDE	DLYORTHO OR POLY(1W)DI
L1 L2 L3	1 SEA FILE=1 3 SEA FILE=1 "GLP-1 (R ISOFORM B)"/CN)	PLU=ON PLU=ON ORM A)"/	("GLP-1 (7- 36)' CN OR "GLP-1 (RAI	"/CN OR
L4	13 SEA FILE=	REGISTRY ABB=ON	PLU=ON		
L5	41 SEA FILE=	REGISTRY ABB=ON	PLU=ON		
L7	1 SEA FILE=	REGISTRY ABB=ON REGISTRY ABB=ON	PLU=ON		R "TREHALOSE
r8	2 SEA FILE= (MOUSE)"/	CN)		•	
L9	2 SEA FILE=	REGISTRY ABB=ON		MANNITOL/CN	
L10	5 SEA FILE=	REGISTRY ABB=ON		L7 OR L8 OR L9 ("GLUCAGON-LIKE	סבסשדטב 1"?
L11	122 SEA FTTE	REGISTRY ABB=ON	brn=on		PEFILDE 1 .
		GON-LIKE PEPTIDI	ו וא ס⊷וז דכ	.III OR SUGAR OR P	ONOSACCHARIDE
L14	444382 SEA FILE	HARTDE OR (MONO	OR DI) (W) SACCHARIDE OR S	UCROSE OR
	TREHALOSE	OR MANNITOL			
L17	58 SFA FILE=	REGISTRY ABB=ON	PLU=ON	("GLUCAGON-LIKE	PEPTIDE 1 :
	OR "GLUCA	GON-LIKE PEPTID	E II"?)/(L1 OR L2 OR L3	OR L4 OR L5
L18					
L19		TAN-ULU DILLE DILLE	PLU=ON]	L18 OR GLP1 OR GI	JP2 OR (GLP OR
птэ	GLUCAGON	T.TKE)(2W)(1 OR	2 OR I OI	R II) OR GLPI OR	GLPII OR
	EXENDIN(LW) (3 OR 4 OR II	DIU-ON]	r.14 AND T.19	
L20		=CAPLUS ABB=ON			(GLYCOLIDE(2A)
L34					
	OR ALKYLI	ENE OXALATE) OR	POLYCYAN	DACRYLATE OR POLY	YATKATENEOXATAL
	E OR POL	YALKYLENE OXALAT	E)		
	0 TO1 OD IO	2 OR L33 OR L34			
L36					
L36	ANSWER 1 OF 8 CAPL	US COPYRIGHT 20	04 ACS o	n STN	
ED	Entered STN: 23 Ju	1 2004	APLUS		
ACCE		2004:589569 CF 141:128870	ILTO2		
	MENT NUMBER:	Complexes of Di	otein cr	ystals and ionic	polymers
TITL		Khalaf, Nazer;	Govardha	n, Chandrika	
D ውጤት. TN A F1	NTOR(S): NT ASSIGNEE(S):	Altus Biologics	Inc., U	SA	
SOUR		PCT Int. Appl.	80 pp.		
		CODEN: PIXXD2			
	MENT TYPE:	Patent English			
LANG	UAGE: LY ACC. NUM. COUNT:				
PATE	NT INFORMATION:	_			
	PATENT NO.			LICATION NO.	DATE
	WO 2004060920	71 2004072	2 WO 2	2003-US41691	20031231
	WO 2004060920 W: AE, AG, AL,	AM, AT, AU, AZ	, BA, BB	, BG, BR, BW, BY,	BZ, CA, CH,

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM,
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
             AZ, BY, KG, KZ
             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
             MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
              GQ, GW, ML, MR, NE, SN, TD, TG
                                                                     P 20021231
                                               US 2002-437775P
PRIORITY APPLN. INFO .:
     The present invention relates to complexes of protein crystals and ionic
     polymers and compns. comprising such complexes. The invention further
     provides methods for producing these complexes and compns., as well as
     methods for treatment of an individual having a disease requiring or
     ameliorated by sustained release of protein-based therapies. For example,
     human growth hormone (hGH) was purified and dissolved in water to yield a
     final protein concentration of 15 mg/mL. Tris-HCl (1 M, pH 8.6) was added
     final concentration of 100 mM. To this solution, protamine sulfate was
to a
      final concentration of 2 mg/mL. Crystals of hGH were grown by adding
added to
      acetate (1 M) to the solution so that a final concentration of 85 mM
calcium
calcium acetate
      was obtained. The solution was then incubated for 8 h at 37^{\circ} to
      obtain needlelike crystals. The crystals obtained were found to be less
      than 20 \mu m in length with a crystallization yield of > 70%.
      89750-14-1, Glucagon-like peptide 1
      RL: PEP (Physical, engineering or chemical process); PYP (Physical
      process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
         (complexation of protein crystals with ionic polymers for protein
      USES (Uses)
         sustained release)
      69-65-8, D-Mannitol 99-20-7, Trehalose
      26100-51-6, Polylactic acid
      RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
          (complexation of protein crystals with ionic polymers for protein
          sustained release)
                                   THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                                   RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
 REFERENCE COUNT:
 L36 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
                      30 Apr 2004
       Entered STN:
                             2004:355193 CAPLUS
 ACCESSION NUMBER:
                             140:363055
                            Microencapsulation and sustained release of
 DOCUMENT NUMBER:
 TITLE:
                            biologically active polypeptides
                             Costantino, Henry R.; Hotz, Joyce
                             Alkermes Controlled Therapeutics, Inc. II, USA
 INVENTOR(S):
  PATENT ASSIGNEE(S):
                             PCT Int. Appl., 71 pp.
  SOURCE:
                             CODEN: PIXXD2
                             Patent
  DOCUMENT TYPE:
                             English
  LANGUAGE:
  FAMILY ACC. NUM. COUNT:
  PATENT INFORMATION:
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APPLICATION NO.
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     PATENT NO.
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                                                                                 20031017
                                                   WO 2003-US33168
                                      20040429
                              A2
     WO 2004036186
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BK, BI, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, TT, LU, MC, NI, PT, RO, SE, SI, SK, TR
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                                       20041021 US 2003-688059
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      US 2004208929
                                                     US 2003-688786
                                                                                  20031017
                                       20041118
                               A1
      US 2004228833
                                                                              P 20021017
                                                     US 2002-419388P
PRIORITY APPLN. INFO.:
     This invention relates to compns. for the sustained release of biol.
      active polypeptides, and methods of forming and using said compns., for
      the sustained release of biol. active polypeptides, such as glucagon,
      glucagon-like peptides, exendins, vasoactive intestinal peptide, Igs,
      antibodies, cytokines, interleukins, macrophage activating factors,
      interferons, erythropoietin tumor necrosis factor, colony stimulating
      factors, hormones, etc. The sustained release compns. of this invention
      comprise a biocompatible polymer having dispersed therein, a biol. active
      polypeptide, a sugar and a salting-out salt. For example,
      exendin-4 was encapsulated in poly(
      lactide-co-glycolide) using a water-oil-oil (W/O/O)
      emulsion system. The initial embryonic microparticles were formed in a
      W/O/O inner emulsion step after which they were subjected to coacervation
      and hardening steps. The inner phase was prepared by dissolving the
      exendin-4, sucrose and ammonium sulfate in
      water or an aqueous buffer and injected into a polymer phase (PLG dissolved
      methylene chloride) while sonicating. The resultant water/oil emulsion
in
      was then mixed with silicone oil, and the mixture was added to heptene to
       form microparticles. The microparticles were collected, dried and filled
       into vials.
      57-50-1, Sucrose, biological studies 69-65-8,
IT
       D-Mannitol 99-20-7, Trehalose
       24980-41-4, Polycaprolactone 25248-42-4,
       Polycaprolactone 26100-51-6, Poly(
       lactic acid) 26124-68-5, Poly(glycolic
       acid) 26780-50-7, Glycolide-lactide
       copolymer 29223-92-5, Poly(p-dioxanone)
       89750-14-1, GLP 1 89750-15-2,
       Glucagon-like peptide II
       RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
           (preparation of sustained-release microparticles containing polypeptide,
           polymer, sugar and salt)
 L36 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
       Entered STN: 30 Apr 2004
                                2004:355066 CAPLUS
 ACCESSION NUMBER:
                                140:363054
 DOCUMENT NUMBER:
                                Microencapsulation and sustained release of
 TITLE:
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biologically active polypeptides Costantino, Henry R.; Hotz, Joyce; Bobka, Edward W. INVENTOR(S): Alkermes Controlled Therapeutics, Inc. II, USA; Amylin PATENT ASSIGNEE(S): Pharmaceuticals, Inc. PCT Int. Appl., 66 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE APPLICATION NO. KIND DATE PATENT NO. _____ -----____ WO 2003-US33198 20031017 20040429 WO 2004035762 A2 20040805 A3 WO 2004035762 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003-688059 20031017 20041021 US 2004208929 A1 20031017 US 2003-688786 20041118 US 2004228833 Α1 P 20021017 US 2002-419388P PRIORITY APPLN. INFO.: This invention relates to compns. for the sustained release of biol. active polypeptides, and methods of forming and using said compns., for the sustained release of biol. active polypeptides. The sustained release compns. of this invention comprise a biocompatible polymer having dispersed therein, a biol. active polypeptide, a sugar and a salting-out salt. For example, sustained-release exendin-4 microparticles were prepared using poly(lactide -co-glycolide) (50:50), 3% exendin-4, 2%sucrose, and 0.3% ammonium sulfate. 57-50-1, Sucrose, biological studies 69-65-8, IT D-Mannitol 99-20-7, Trehalose 26780-50-7, Glycolide-lactide copolymer RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of sustained-release microparticles containing polypeptide, polymer, sugar and salt) L36 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN Entered STN: 30 Apr 2004 2004:355059 CAPLUS ACCESSION NUMBER: 140:363053 DOCUMENT NUMBER: Microencapsulation and sustained release of TITLE: biologically active polypeptides Costantino, Henry R.; Hotz, Joyce INVENTOR(S): Alkermes Controlled Therapeutics, Inc. II, USA; PATENT ASSIGNEE(S): Alkermes Inc. PCT Int. Appl., 72 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE:

- C. C. S. C.

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LANGUAGE:

ار در بريامير

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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APPLICATION NO.
                                                                   DATE
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                        KIND
    PATENT NO.
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                        ____
                                                                   20031017
                                           WO 2003-US33062
                               20040429
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    WO 2004035754
                               20041007
                         A3
    WO 2004035754
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            OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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                                                               P 20021017
                                            US 2002-419388P
PRIORITY APPLN. INFO.:
    This invention relates to compns. for the sustained release of biol.
     active polypeptides, and methods of forming and using said compns., for
     the sustained release of biol. active polypeptides. The sustained release
     compns. of this invention comprise a biocompatible polymer having
     dispersed therein, a biol. active polypeptide, a sugar and a
     salting-out salt. For example, exendin-4 was
     encapsulated in poly(lactide-co-glycolide)
     (PLG) polymer using a water-oil-oil (W/O/O) emulsion system. The initial
     embryonic microparticles were formed in a W/O/O inner emulsion step after
     which they were subjected to coacervation and hardening steps. A
     water-in-oil emulsion was created using sonication. The water phase of
     the emulsion contained dissolved exendin-4 and
     excipients, e.g., sucrose and ammonium sulfate, while the PLG
     phase contained polymer dissolved in methylene chloride. The aqueous
     was then injected into the polymer solution while sonicating. The resultant
solution
     water/oil emulsion was then mixed with silicone oil and the mixture was
     added to n-heptane to form microparticles. The microparticles were
     isolated by filtration and vacuum dried.
     57-50-1, Sucrose, biological studies 69-65-8,
     D-Mannitol 99-20-7, Trehalose
     24980-41-4, Polycaprolactone 25248-42-4,
     Polycaprolactone 26100-51-6, Poly(
     lactic acid) 26124-68-5, Poly(glycolic
     acid) 26780-50-7, Poly(lactide-co
      glycolide) 89750-14-1, GLP-1
     89750-15-2, Glucagon-like peptide II
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (preparation of sustained-release microparticles containing polypeptide,
         polymer, sugar and salt)
 L36 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
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Searcher : Shears 571-272-2528

2003:491015 CAPLUS

139:57936

Entered STN: 27 Jun 2003

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ACCESSION NUMBER:

DOCUMENT NUMBER:

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Solid pharmaceutical for parenteral administration Hansen, Henrik Egesborg; Sabra, Mads Christian; TITLE: INVENTOR(S): Rasmussen, Thomas Buch Novo Nordisk A/S, Den. PATENT ASSIGNEE(S): PCT Int. Appl., 51 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE APPLICATION NO. KIND DATE PATENT NO. _____ _____ -----____ WO 2002-DK865 20021217 20030626 A1 WO 2003051328 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 2002-787456 20040922 Α1 EP 1458352 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK 20021218 US 2002-322143 20030828 A1 US 2003161881 A 20011218 DK 2001-1901 PRIORITY APPLN. INFO .: P 20011219 US 2001-342065P W 20021217 WO 2002-DK865 A solid pharmaceutical composition for parenteral administration comprises AΒ inner matrix containing at least 1 therapeutic agent, and a biodegradable, an water-impermeable coating covering part of the surface of the composition, and wherein the inner matrix disintegrates upon contact with animal tissue or tissue fluids. The coating is made from a material selected from the group consisting of polyesters such as polyglycolides, polylactides and polylactic polyglycolic acid copolymers, etc. The inner-matrix may comprise a binder, e.g., mannitol, and the active agent may comprise insulin. Dry amorphous Maltidex H16323 (35 g) was mixed with 35 g human insulin. mixture was cooled and investigated under a microscope and there was no air entrapment, which also is indicated by the constant torque. The insulin activity before mixing was 99.62% and after mixing 97.52%. 57-50-1, Sucrose, biological studies 69-65-8, \mathbf{T} Mannitol 99-20-7, Trehalose 24980-41-4 , Polycaprolactone 25248-42-4, Polycaprolactone 26100-51-6, Poly(lactic acid) 26124-68-5, Poly(Glycolic acid) 26780-50-7, Glycolide-lactide copolymer 30846-39-0, Glycolide-L-lactide copolymer RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (solid pharmaceutical for parenteral administration) THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

> 571-272-2528 Shears Searcher :

5

REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

Entered STN: 22 Mar 2002

2002:220398 CAPLUS ACCESSION NUMBER:

136:252466 DOCUMENT NUMBER:

Injectable hybrid matrix mixtures TITLE:

Mineau-Hanschke, Rochelle; Lamsa, Justin Chace; INVENTOR(S):

Abalos-Coyle, Deborah

Transkaryotic Therapies, Inc., USA PATENT ASSIGNEE(S):

PCT Int. Appl., 98 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE: English LANGUAGE:

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

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WO 2002022157 A2 20020321	WO 2001-US42085	20010910
WO 2002022157 W: AE, AG, AL, AM, AT, AU, AZ, ECR, CU, CZ, DE, DK, DM, DZ, ECR, LU, LV, MA, MD, MG, MK, ECR, CU, SD, SE, SG, SI, SK, SUZ, VN, YU, ZA, ZW, AM, AZ, ECR, CH, GM, ES, FI, FR, GB, GR, ED, CF, CG, CI, CM, GA, GN, AU 2001095028 PRIORITY APPLN. INFO.:	EC, EE, ES, FI, GB, GD, KE, KG, KP, KR, KZ, LC, MN, MW, MX, MZ, NO, NZ, SL, TJ, TM, TR, TT, TZ, BY, KG, KZ, MD, RU, TJ, SL, SZ, TZ, UG, ZW, AT, IE, IT, LU, MC, NL, PT, GQ, GW, ML, MR, NE, SN, AU 2001-95028 US 2000-662037	LK, LR, LS, PH, PL, PT, UA, UG, US, TM BE, CH, CY, SE, TR, BF,

The invention features a method of delivering a polypeptide to an animal. The method involves introducing into the animal a fluid mixture containing: AΒ

population of cultured vertebrate cells genetically engineered to express a the polypeptide; and a plurality of microcarriers.

118549-37-4, Insulinotropin IT

RL: BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(delivery of; injectable hybrid matrix mixts. containing genetically engineered cells for protein delivery)

26124-68-5, Polyglycolic acid IT

RL: BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(fibers; injectable hybrid matrix mixts. containing genetically engineered

cells for protein delivery)

L36 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

Entered STN: 13 Apr 2001

2001:265288 CAPLUS ACCESSION NUMBER:

134:300844 DOCUMENT NUMBER:

> Shears 571-272-2528 Searcher :

TITLE:

Hybrid matrices and hybrid matrix mixtures for

delivering a polypeptide to an animal

INVENTOR(S):

Mineau-Hanschke, Rochelle; Lamsa, Justin Chace;

DATE

Abalos-Coyle, Deborah

PATENT ASSIGNEE(S):

Transkaryotic Therapies, Inc., USA

SOURCE:

PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

A composition having a body of matrix material made up of insol. collagen fibrils, and disposed there within: (a) a plurality of vertebrate cells; AΒ (b) a plurality of microcarriers; and (c) an agent such as a factor that promotes vascularization, a cytokine, a growth factor, or ascorbic acid. The invention also features a method of delivering a polypeptide to an animal. The method involves introducing into the animal a fluid mixture containing: (a) a population of cultured vertebrate cells genetically engineered to express the polypeptide; and (b) a plurality of microcarriers. Heparin-sepharose hybrid collagen matrixes were prepared The heparin-sepharose beads were coated with bFGF (50 μ g/mL packed beads). The beads containing human foreskin fibroblast clone expressing hFVIII at level between 20,000-30,000 mU/24h/106 cells were s.c. implanted into mice. The amount of hFVIII production was significantly higher than uncoated matrixes.

118549-37-4, Insulinotropin ΙT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

> 571-272-2528 Shears Searcher :

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(hybrid matrixes and hybrid matrix mixts. for delivering polypeptide to animal)

26124-68-5, Polyglycolic acid IT

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (hybrid matrixes and hybrid matrix mixts. for delivering polypeptide to animal)

L36 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

Entered STN: 10 Nov 1999

1999:717837 CAPLUS ACCESSION NUMBER:

131:314241 DOCUMENT NUMBER:

Stabilized protein crystals, formulations containing TITLE:

them and methods of making them

Margolin, Alexey L.; Khalaf, Nazer K.; St. Clair, INVENTOR(S):

Nancy L.; Rakestraw, Scott L.; Shenoy, Bhami C.

PATENT ASSIGNEE(S):

SOURCE:

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Altus Biologics Inc., USA PCT Int. Appl., 201 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT :	NO.			KINI)	DATE		<i>i</i>	APPL	ICAT	ON 1	NO.	-	D -	ATE	
wo	9955 W:	AE, DE, JP, MN, TM,	AL, DK, KE, MW, TR,	AM, EE, KG, MX, TT,	A1 AT, ES, KP, NO, UA,	AU, FI, KR,	1999: AZ, GB, KZ,	BA, GD, LC,	BB, GE, LK,	WO 1 BG, GH, LR,	999-T BR, GM, LS, SD,	JS909 BY, HR, LT, SE,	CA, HU, LU, SG,	ID, LV, SI,	IL, MD, SK,	9990 CU, IN, MG, SL, KG,	IS, MK, TJ,
	RW:	GH,	FT.	KE,	LS, GB,	GR,	IE,	TT,	ьu,	MC,	иь,	EI,	رعد	CH, BF,	CY, BJ,	DE, CF,	DK, CG,
AU	2330 9937	476 646			AA A1		1999 1999	1104 1116		CA 1	TD, 999 999	2330	4/6		1	L9990 L9990	427 427
	7579	91			B2		2003	0313 0207		EP 1	1999-	9200	64			19990 , MC,	427 PT,
បន	2002	IE, 25129 20455	FI 49 82		T2 A1		2002 2002	0508 0418		JP 2	2000- 1999-	5455	10		:	19990 19990	427
US Z <i>I</i> US	6541 A 2000 S 2003	1606 00060 31752)23 !39		B2 A		2001	0401 1113 0918		US :	2003-	3832	66			20001 20030 19980	305
PRIORI'	ry API	PLN.	INFC).:						US US WO	1998- 1997-	-2244 -7027 -US90	75 4P 99		A2 P W	19981 19971 19990 19990	.231 .231)427
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Methods are provided for the stabilization, storage, and delivery of biol. AΒ active macromols., such as proteins, peptides and nucleic acids. Methods are provided for the crystallization of proteins and nucleic acids and for the

> 571-272-2528 Searcher : Shears

preparation of stabilized protein or nucleic acid crystals for use in dry or slurry formulations in pharmaceutical and veterinary formulations, diagnostics, cosmetics, food, and agricultural feeds. The crystals are stabilized by addition of excipients such as carbohydrates or by encapsulating them in a polymeric carrier. Methods are presented for encapsulating proteins, glycoproteins, enzymes, antibodies, hormones, and peptide crystals or crystal formulations into compns. for biol. delivery to humans and animals. Thus, lipase from Candida rugosa was dissolved in distilled water, treated with celite, adjusted to pH 4.8 with AcOH,

filtered,

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ultrafiltered to remove proteins of <30 kDa mol. weight, and crystallization was

initiated by addition of 2-methyl-2,4-pentanediol. Sucrose was added to the mother liquor to a concentration of 10%, and the crystals were separated

by centrifugation, suspended in EtOH, and air dried at room temperature Alternatively, the lipase crystals were crosslinked and encapsulated in lactic acid/glycolic acid copolymer; the microspheres formed were 90 μm in diameter

87805-34-3, Glucagon-like peptide I TΤ

(human)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(stabilized protein crystals, formulations containing them and methods of making them)

24980-41-4, Polycaprolactone 25248-42-4, ΙT

Polycaprolactone 26100-51-6, Poly(

lactic acid) 31621-87-1, Polydioxanone

RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (stabilized protein crystals, formulations containing them and methods of

making them) 57-50-1, Sucrose, biological studies 99-20-7,

Trehalose

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (stabilizer; stabilized protein crystals, formulations containing them

and

ΙT

methods of making them)

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, JAPIO, RAPRA, PLASNEWS, CBNB, CIN, CEN, DISSABS, PASCAL' ENTERED AT 14:28:37 ON 08 DEC 2004)

L37 4 S L36

4 DUP REM L37 (0 DUPLICATES REMOVED) L38

L38 ANSWER 1 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

WPIDS 2004-571333 [55] ACCESSION NUMBER:

C2004-208534 DOC. NO. CPI:

TITLE:

Complex for treating disease state ameliorated by sustained release of protein-based therapies, in mammal, comprises protein crystal and ionic compound.

571-272-2528 Shears Searcher :

DERWENT CLASS:

A96 B04 D16

INVENTOR(S):

GOVARDHAN, C; KHALAF, N

PATENT ASSIGNEE(S):

(ALTU-N) ALTUS BIOLOGICS INC

COUNTRY COUNT:

107

PATENT INFORMATION:

PAT	CENT	ИО			KIN	1D I	ATE	2	V	VEE	ζ 		LΑ	I 	?G -								
MO	2004 RW:	ידית	BF	RG	RW	CH	CY	CZ	DE	DK	EΑ	$\mathbf{E}\mathbf{E}$	ES	$_{\rm FI}$	ĿΚ	GB	GH	GM	GR	НU	ΙE	ΙT	KE
		7.0	T T T	MC	MTAT	M7	NT.	Δ	PТ	RO	SD	SE	SI	SK	\mathtt{SL}	sz	TR	$^{\mathrm{TZ}}$	UG	z_{M}	ZW		
	W:	DIZ	DM	D7	FC	모모	FC	FS	FT	GB	GD	GE	GH	GM	HR	ΗU	ΙD	TT	ΤN	12	UP	VE	NG
		KP	KR	KZ pt.	LC PT	LK RO	LR RU	LS SC	LT SD	LU SE	LV SG	MA SK	MD SL	MG SY	MK TJ	MN TM	MW TN	MX TR	MZ TT	TZ	NO UA	UG	US
					YU	ZΑ	ZM	zw															

AU 2003300126 A1 20040729 (200477)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004060920		WO 2003-US41691	20031231
AU 2003300126		AU 2003-300126	20031231

FILING DETAILS:

PATENT NO	KIND	PATENT NO
	Al Based on	WO 2004060920

PRIORITY APPLN. INFO: US 2002-437775P

20021231

AN 2004-571333 [55] WPIDS

AB WO2004060920 A UPAB: 20040826

NOVELTY - A complex (I), comprising a protein crystal and an ionic compound, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a composition (II) comprising an insoluble phase suspended in a solution phase, where the insoluble phase is a complex comprising a protein crystal, an ionic compound and an excipient and where the solution phase is chosen from water, buffer, preservative, isotonicity agents, stabilizers or their combination;
- (2) producing (M1) (I) comprising mixing a solution of a protein with a crystallization reagent mix to produce a solution, adding deionized water to the solution, incubating the solution for 2-48 hours at a temperature of 4-40 deg. C, until protein crystals are formed, and adding an ionic compound to the solution, or by mixing a solution of a protein with crystallization buffer to produce a solution, adding deionized water to the solution, adding an ionic compound to the solution, and incubating the solution for 2-48 hours at a temperature of 4-40 deg. C, until protein crystals are formed; and
- (3) producing (M2) a composition comprising a protein complex suspended in a solution phase, involves mixing the complex prepared in (M1) in a solution phase chosen from water, buffer, preservative, isotonicity agents, stabilizers and their combination.

Searcher : Shears 571-272-2528

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ACTIVITY - None given.

MECHANISM OF ACTION - Protein therapy.

No biological data given.

USE - (I) and (II) are useful for treating a disease state in a mammal (human) (claimed), where the disease state ameliorated by sustained release of protein-based therapies. Dwg.0/10

L38 ANSWER 2 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

ACCESSION NUMBER:

2004-389587 [36] WPIDS

CROSS REFERENCE:

2004-357213 [33]; 2004-389517 [36]

DOC. NO. CPI:

C2004-145971

TITLE:

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Composition for the sustained release of a biologically

active polypeptide (e.g. exendin-4

for treating diabetes) comprises a biocompatible polymer

containing the polypeptide, a sugar and

salting-out salt. A96 B01 B04 D16

DERWENT CLASS:

INVENTOR(S):

COSTANTINO, H R; HOTZ, J

PATENT ASSIGNEE(S):

(ALKE-N) ALKERMES CONTROLLED THERAPEUTICS

COUNTRY COUNT: 106

PATENT INFORMATION:

PATENT	ИО	KIND	DATE	WEEK	LA	PG

WO 2004036186 A2 20040429 (200436)* EN

RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS

LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG

PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ

VC VN YU ZA ZM ZW

AU 2003277446 A1 20040504 (200467)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004036186	A2	WO 2003-US33168	20031017
AU 2003277446	A1	AU 2003-277446	20031017

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003277446	Al Based on	WO 2004036186

PRIORITY APPLN. INFO: US 2002-419388P 20021017

2004-389587 [36] WPIDS AN

2004-357213 [33]; 2004-389517 [36] CR

WO2004036186 A UPAB: 20041019 NOVELTY - A composition (I) for the sustained release of a biologically active polypeptide, comprises a biocompatible polymer having the polypeptide, a sugar, and a salting-out salt dispersed within it.

> Shears 571-272-2528 Searcher :

ACTIVITY - Antidiabetic; Immunosuppressive; Antiinfertility; Neuroprotective; Cardiovascular-Gen.; Anorectic.

MECHANISM OF ACTION - None given.

USE - (I) is useful for the sustained release of a biologically active polypeptide. (I) comprising exendin-4 is specifically useful for treating Type 2 diabetes (all claimed). Compositions of the invention are also useful for treating diseases such as Type I diabetes, impaired glucose tolerance, obesity, cardiovascular disorders, infertility, and multiple sclerosis.

ADVANTAGE - (I) has improved release properties compared to prior art sustained release compositions. The bioavailability of the polypeptide is increased, and the release profile is smoother. The stability of polypeptides in the composition is good. The use of sustained release compositions such as (I) increases patient compliance and acceptance by eliminating the need for repetitive administration.

DESCRIPTION OF DRAWING(S) - The figure shows a graph representing serum exendin-4 levels (pg/ml) in rats administered 40 mg of exendin-containing microparticles with 30 mg of placebo microparticles or 10 mg of 2% triamcinolone acetonide-containing microparticles versus time in days. Dwg.18/18

L38 ANSWER 3 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

ACCESSION NUMBER:

WPIDS 2004-389517 [36] 2004-357213 [33]; 2004-389587 [36]

CROSS REFERENCE: DOC. NO. CPI:

C2004-145917

TITLE:

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Composition for sustained release of a polypeptide useful for the treatment of e.g. type 2 diabetes comprises a

biocompatible polymer dispersed in a polypeptide, a

sugar and a salting-out salt.

DERWENT CLASS:

A96 B04 D16

INVENTOR(S):

COSTANTINO, H R; HOTZ, J; HOTZ, J M

PATENT ASSIGNEE(S):

(ALKE-N) ALKERMES CONTROLLED THERAPEUTICS; (COST-I)

COSTANTINO H R; (HOTZ-I) HOTZ J M

106 COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND	WEEK	LΑ	PG

A2 20040429 (200436)* EN 72 WO 2004035754

RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS

LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG

PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ

VC VN YU ZA ZM ZW

A1 20040504 (200467) AU 2003286472

A1 20041118 (200477) US 2004228833

APPLICATION DETAILS:

PATENT NO KIND		APPLICATION	DATE		
WO 2004035754		WO 2003-US33062	20031017		
AU 2003286472		AU 2003-286472	20031017		

20021017 US 2002-419388P US 2004228833 Al Provisional 20031017 US 2003-688786

FILING DETAILS:

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PATENT NO PATENT NO KIND WO 2004035754 AU 2003286472 Al Based on

20021017; US PRIORITY APPLN. INFO: US 2002-419388P 2003-688786 20031017

2004-389517 [36] WPIDS ΑN

2004-357213 [33]; 2004-389587 [36] CR

WO2004035754 A UPAB: 20041203 AB

NOVELTY - A composition (C1) comprises a biocompatible polymer dispersed in a polypeptide, a sugar and a salting-out salt

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(a) a composition (C2) comprising a biocompatible polymer containing exendin-4 dispersed in it, sucrose and ammonium sulfate; and

(b) treating type 2 diabetes involving administering (C2). ACTIVITY - Antidiabetic; Anorectic; Cardiovascular-Gen. MECHANISM OF ACTION - None given.

USE - For sustained release of a polypeptide; in the treatment of e.g. type 2 diabetes (claimed). Also useful for the treatment of impaired glucose tolerance, obesity, cardiovascular disorders and other disorders that can be treated by the polypeptides.

ADVANTAGE - The composition provides sustained release of the polypeptide at therapeutic levels over a period of 1 - 4 weeks; thus improves patient compliance an acceptance by eliminating the need for repetitive administrations and polypeptide bioavailability; while retaining the activity and potency of the polypeptide over a desired period of release, and increases therapeutic benefit by eliminating fluctuations in the active agent concentration in blood level. The composition further exhibits a reduced lag phase, which provides for a smoothing out of the release profile and contributes to an increase in the amount of agent released, and potentially lowers the total amount of polypeptide necessary to provide a therapeutic benefit by reducing the fluctuations in the blood level. The presence of corticosteroid in the composition further modifies the release profile of the peptide i.e. increases the bioavailability of the peptide from the composition. Dwg.0/18

L38 ANSWER 4 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

2003-636536 [60] WPIDS ACCESSION NUMBER:

C2003-173927 DOC. NO. CPI:

Solid pharmaceutical composition for parenteral TITLE:

administration of e.g. analgesic, comprises coated inner matrix coated that disintegrates upon contact with animal

tissue or tissue fluids.

A96 B07 D22

BUCH-RASMUSSEN, T; HANSEN, H E; SABRA, M C; RASMUSSEN, T DERWENT CLASS: INVENTOR(S):

(BUCH-I) BUCH-RASMUSSEN T; (HANS-I) HANSEN H E; (SABR-I) PATENT ASSIGNEE(S):

SABRA M C; (NOVO) NOVO NORDISK AS

571-272-2528 Shears Searcher :

COUNTRY COUNT:

103

PATENT INFORMATION:

PAT	ENT	ИО			KIN	D D	ATE	3	V	EEF	ζ 		LA	<u>-</u>	?G -								
WO	2003 RW: W:	AT MC AE DM KZ RO	BE MW AG DZ LC RU	BG MZ AL EC	CH NL AM EE	CY OA AT ES	PT AU FI	DE SD AZ GB	DK SE BA GD	EA SI BB GE	SK BG GH	SL BR GM MG	SZ BY HR MK	TR BZ HU MN	CA ID MW	CH IL MX	CN IN MZ	CO IS NO	CR JP NZ	CU KE OM	CZ KG PH	DE KP PL	DK KR PT
AU	2003 2003 145 R:	316: 235: 835: AL	1739	BE	BG	200 200 CH	030 040 CY	630 922 CZ	(2) (2) DE	004: 004 DK	20) 62)	ES	N FI	FR	GB	GR	ΙE	IT	LI	LT	ΓŪ	ΓΛ	MC

APPLICATION DETAILS:

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PATENT NO KIN	D A	PPLICATION	DATE
WO 2003051328 A1 US 2003161881 A1 AU 2002351739 A1 EP 1458352 A1	Provisional US US AU EF	2002-DK865 2001-342065P 2002-322143 2002-351739 2002-787456 2002-DK865	20021217 20011219 20021218 20021217 20021217 20021217

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2002351739	Al Based on	WO 2003051328
EP 1458352	Al Based on	WO 2003051328

PRIORITY APPLN. INFO: DK 2001-1901

20011218

2003-636536 [60] WPIDS AΝ

WO2003051328 A UPAB: 20030919 AB

NOVELTY - A solid pharmaceutical composition comprises an inner matrix comprising therapeutic agent(s), and biodegradable and water-impermeable coating covering part of the surface of the composition. The inner matrix disintegrates upon contact with animal tissue or tissue fluids.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for manufacturing the above composition by coating a mold with a biodegradable polymer, melting and injecting an inner matrix comprising a therapeutic agent(s) into the mold, hardening the mold, and cutting the resulting rod into elongated compositions.

USE - For parenteral administration of therapeutic agents, e.g. analgesics, antianxiety drugs, antiarthritic drugs, antibiotic agents, anticholinergics, antidepressants, antidiabetics, antiemetics, antihistaminics, antihypertensive agents, antiinflammatory drugs, antimigraine agents, antiparkinsonism agents, antipasmodesics, antipsychotics, antithrombotic agents, antiviral agents, appetite suppressants, blood factors, cardiovascular drugs, cerebral vasodilators,

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chemotherapeutic drugs, cholinergic agonists, contraceptives, coronary agents, diuretics, hormonal agents, immunosuppressive agents, growth factors, narcotic antagonists, opiods, peripheral asodilators, tranquilizers, vaccines, immunogenic agents, or immunizing agents. The therapeutic agent also includes hormones, lipids, nucleic acids, nucleotides, oligonucleotides, oligosaccharides, organics, peptides, mimetics, antibodies, peptides, polysaccharides, or protein; or coagulation factors such as FVII, and FVIII, GLP-1, EPO, TPO, interferon or their derivatives. It is for parenteral injection in an animal consisting of fish, birds, molluscs, reptiles, or mammals including human. It is used for immunization (all claimed).

ADVANTAGE - By providing a disintegratable and/or soluble inner matrix, the rate of release of the drug can be controlled, thus providing a more constant release rate. The whole composition is broken down completely in the tissue within short period than to the time required for release of the therapeutic agent. Surgery is not required to remove the composition after release of the therapeutic agent, and local irritation cased by the composition is a very limited. The composition can penetrate the epidermis or mucosa of a human being at a force of less 5 N without or with the use of trocar of syringe. Dwg.0/9

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(FILE 'MEDLINE' ENTERED AT 14:46:00 ON 08 DEC 2004)
         26723 SEA FILE=MEDLINE ABB=ON PLU=ON POLYMERS/CT
L39
         29970 SEA FILE=MEDLINE ABB=ON PLU=ON CARBOHYDRATES/CT
L40
           205 SEA FILE=MEDLINE ABB=ON PLU=ON L39 AND L40
L41
         79055 SEA FILE=MEDLINE ABB=ON PLU=ON PEPTIDES/CT
L42
         128407 SEA FILE=MEDLINE ABB=ON PLU=ON PROTEINS/CT
L43
            27 SEA FILE=MEDLINE ABB=ON PLU=ON L41 AND (L42 OR L43)
L44
          3800 SEA FILE=MEDLINE ABB=ON PLU=ON SALTS/CT
L45
              1 SEA FILE=MEDLINE ABB=ON PLU=ON L44 AND L45
L46
          26723 SEA FILE=MEDLINE ABB=ON PLU=ON POLYMERS/CT
L39
          29970 SEA FILE=MEDLINE ABB=ON PLU=ON CARBOHYDRATES/CT
L40
            205 SEA FILE=MEDLINE ABB=ON PLU=ON L39 AND L40
L41
          79055 SEA FILE=MEDLINE ABB=ON PLU=ON PEPTIDES/CT
L42
         128407 SEA FILE=MEDLINE ABB=ON PLU=ON PROTEINS/CT
L43
             27 SEA FILE=MEDLINE ABB=ON PLU=ON L41 AND (L42 OR L43)
L44
           8854 SEA FILE=MEDLINE ABB=ON PLU=ON CATIONS/CT
           6348 SEA FILE=MEDLINE ABB=ON PLU=ON ANIONS/CT
L47
L48
              1 SEA FILE=MEDLINE ABB=ON PLU=ON L44 AND (L47 OR L48)
L49
              2 S L46 OR L49
L50
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MEDLINE on STN L50 ANSWER 1 OF 2 MEDLINE ACCESSION NUMBER: 2002034751 PubMed ID: 11763031 DOCUMENT NUMBER:

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122 y - ...

Effect of dissolved organic material and cations on freeze-thaw conditioning of activated and alum sludges. TITLE:

Ormeci B; Vesilind P A AUTHOR:

Department of Civil and Environmental Engineering, Duke CORPORATE SOURCE: University, Durham, NC 27706-0287, USA.. banu@duke.edu Water research, (2001 Dec) 35 (18) 4299-306.

SOURCE:

Journal code: 0105072. ISSN: 0043-1354.

England: United Kingdom PUB. COUNTRY:

> 571-272-2528 Searcher : Shears

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

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Entered STN: 20020124

Last Updated on STN: 20020410 Entered Medline: 20020409

Entered STN: 20020124 ED

Last Updated on STN: 20020410 Entered Medline: 20020409

Freeze-thaw conditioning effectively dewaters alum and activated sludges, AB but it works better on alum sludge than it does on activated sludge. The main difference between alum sludge and activated sludge is that activated sludge has high concentrations of both dissolved organic material and ions. Dissolved organic material and ions may possibly alter the freezing process and decrease the effectiveness of freeze-thaw conditioning on activated sludge. The objective of this study is to investigate the effect of dissolved organic material and cations on freeze-thaw conditioning of sludges, and to improve the effectiveness of freeze-thaw conditioning on activated sludge. The results of this study show that although protein, carbohydrate and cation concentrations in activated sludge supernatant are initially high, they dramatically increase after freeze-thaw conditioning. The increase is likely to come from the release of extracellular and intracellular material to sludge supernatant. The observed increase in the DNA concentration in activated sludge supernatant after freeze-thaw conditioning indicates that freeze-thaw causes cell disruption. Alum sludge supernatant, on the other hand, initially contains low concentrations of proteins, carbohydrates and cations which do not noticeably change after freeze-thaw conditioning. When ECPs (extracellular polymers) and cations are extracted from activated sludge before freeze-thaw conditioning. the sludge settles and dewaters better after the freeze-thaw. The resulting aggregates are smaller and denser resembling the "coffee ground" aggregates of alum sludge.

MEDLINE on STN L50 ANSWER 2 OF 2 92081486 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER:

PubMed ID: 1746350

TITLE:

Solute-polymer-water interactions and their manifestations.

AUTHOR:

Chinachoti P; Schmidt S J

CORPORATE SOURCE:

Department of Food Science, University of Massachusetts,

Amherst 01003.

SOURCE:

Advances in experimental medicine and biology, (1991) 302

561-83. Ref: 110

Journal code: 0121103. ISSN: 0065-2598.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199201

ENTRY DATE:

Entered STN: 19920202

Last Updated on STN: 19920202 Entered Medline: 19920116

Entered STN: 19920202 ED

Last Updated on STN: 19920202

Shears 571-272-2528 Searcher :

Entered Medline: 19920116 This paper reviews recent work on the interactions among solutes, AB polymers, and water in model food systems. Four possible combinations of ionic or non-ionic solutes and polymers are discussed in terms of their water sorption behavior. Comparisons between experimental values and values calculated by a mass balance equation are made. The salt-protein, sucrose-starch, and salt-starch combinations sorbed less water than that predicted by calculated sorption values. This was attributed to the inability of the interacted solutes to sorb their full complement of water. On the other hand, the sucrose-protein combination exhibited an increase in the amount of water sorbed over that calculated by the mass balance equation. This was attributed to the increased hydration of the protein component, due to an effect of the sucrose. One of the major factors involved in these solute-polymer interactions is the competition for water among the solutes and polymers. This competition, in turn, is greatly influenced by the "state" of the water associated with these components. Lastly, examples of how biological, chemical, and physico-chemical phenomena in foods are affected by these factors are also given. The phenomena discussed include mold germination, the Maillard

reaction, ascorbic acid oxidation, protein functionality, starch

gelatinization and retrogradation, and the complication of the order of

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mixing.

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